QC-ABSTRACT

Name of Work:- Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	Materials	–	1	1	Cement
					Sand, Aggregates
2	Solid Blocks (400x200x200)mm	71.04 Sqm	1	1	Compressive Strength & Bulk Density
3	Precast slab (250mm)	40.32 Sqm	1	1	Concrete Core Compressive Strength

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Job No.: CACE/BBMP/AN/W.No.14/2022-23

Date: 06.07.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Ajay N ,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		June-2022
DATE OF TESTING		04.07.2022 to 06.07.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Job No.: CACE/BBMP/AN/W.No.14/2022-23 Date : 06.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ajay N , Contractor, Bangalore**

Name of Work :Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

Date of Testing : 06.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	9.20	9.20	90.8	90-100
2.36	129	12.90	22.10	77.9	75-100
1.18	189	18.90	41.00	59.0	55-90
600 Micron	167	16.70	57.70	42.3	35-59
300 Micron	249	24.90	82.60	17.4	8-30
150 Micron	133	13.30	95.90	4.1	0-10

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Job No.: CACE/BBMP/AN/W.No.14/2022-23

Date :06.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Ajay N , Contractor, Bangalore.

Name of Work :Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

Date of Testing :06.07.2022

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	20	2.00	3.40	96.6	95-100
1.18	34	3.40	6.80	93.2	90-100
600 Micron	78	7.80	14.60	85.4	80-100
300 Micron	265	26.50	41.10	58.9	20-65
150 Micron	515	51.50	92.60	7.4	0-15

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Job No.: CACE/BBMP/AN/W.No.14/2022-23 Date :06.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Ajay N , Contractor, Bangalore.

Name of Work :Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

Date of Testing :06.07.2022

Material : Sand(Masonry) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	33	3.30	5.40	94.6	70-100
600 Micron	84	8.40	13.80	86.2	40-100
300 Micron	265	26.50	40.30	59.7	5-70
150 Micron	478	47.80	88.10	11.9	0-15

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Job No.: CACE/BBMP/AN/W.No.14/2022-23 Date : 06.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Ajay N , Contractor, Bangalore**

Name of Work :Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

Date of Testing : 06.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2482	49.6	53.5	46.5	25-55
4.75	1911	38.2	91.7	8.3	0-10

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Date : 06.07.2022

Job No.: CACE/BBMP/AN/W.No.14/2022-23

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Ajay N , Contractor, Bangalore

Name of Work :Providing Chambers to existing borewell and conscaling to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

Date of Testing : 06.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	169	1.13	1.13	98.87	95-100
20	8001	53.34	54.47	45.53	30-70
10	3115	20.77	75.23	24.77	10-35
4.75	2821	18.81	94.04	5.96	0-5

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Job No.: CACE/BBMP/AN/W.No.14/2022-23 Date 11.07.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**Sri. Ajay N , Contractor, Bangalore.**

Name of the Work :Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

Date of Testing 11.07.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.1	400.5	5.01	2006.25	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	32.9	402.1	5.03	2056.25	
3	Block 3	32.2	401.6	5.02	2012.50	
4	Block 4	33.2	403.2	5.04	2075.00	

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Job No.: CACE/BBMP/AN/W.No.14/2022-23

Date: 19.07.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Contractor : Sri. Ajay N , Contractor, Bangalore.

Name of Work : Providing Chambers to existing borewell and consealing to road surface area in ward No.14,Dasarahalli sub division, BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 19.07.2022

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	112.00	1.682	2360.66	1.24	0.918	112.30	17.65	19.06	17.51	21.89
2	90.00	114.00	1.726	2379.91	1.27	0.921	114.60	18.01	19.46	17.91	22.39
3	90.00	116.00	1.765	2391.73	1.29	0.923	115.60	18.17	19.62	18.12	22.65

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